Date: 1 June 2017

Offer Definition

Avaya IP-DECT Wireless Solution

DECT R4 Edition 6

Offer Definition

Product ➔	DECT R4 Edition 6	GA Date ➔	July 2017
Rev #		**Rev Date**	
4.21		**1 June 2017**	
Avaya Source Prime		**Channel Partner Target Audience**	
		Product Management, Order Management, Documentation, Training, Lab Engineers, Sales Engineers	

CHANGE CONTROL RECORD			
Date (mm/dd/yy)	**Issue/Version #**	**Prime**	**Summary of Changes**
Dec 2011	4.6	Joerg Richter and Tony Wallbank	
Apr 2012	4.8	Tony Wallbank	
July 2013	4.9	Vandy Lee	Edition 4 enhancements
Aug 2013	4.10	Vandy Lee	Update services offers
Oct 2013	4.11	Vandy Lee	Update ISDN RBS
Jan 2014	4.12	Vandy Lee	Clarify system capacity
Apr 2014	4.13	Vandy Lee	Clarify switch license requirement
June 2015	4.14	Gord Webster	Introduction of RBS V3
Nov 2015	4.15	Gord Webster	Country Updates
Jan 2016	4.16	Gord Webster	Introduction of 3745
Mar 2016	4.17	Gord Webster	Edition 5 enhancements
Jun 2016	4.18	Gord Webster and Feroz Kareem	Reflect end-of-sale for 3740.
Oct 2016	4.19	Feroz Kareem	Compatibility with B169 Conference Phone

May 2017	4.20	Feroz Kareem	Update on ISDN BS technical details & AIWS comparison table
July 2017	4.21	Feroz Kareem	Introduction of 3730, 3735 Standard version and Alarm version & Service support update
August 2017	4.22	Feroz Kareem	Update on 3701 & 3711 are not supported on DECT R4 and DECT release 4.6 supports CM 6.2 FP4 SP11

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About this Document

This **Offer Definition** is intended for Channel Partners, Distributor-Product Managers, Sales, Engineering, Order Management, Documentation and Training personnel. It will provide the necessary information required to successfully introduce Avaya DECT R4 Edition 4 in a network environment.

Non-Disclosure
The Avaya non-disclosure processes will be followed for any documentation and information being released to the End Customer or any type of Channel Partner's personnel not covered by a contract with Avaya prior to GA.

Globalization: This document is written as a global document. All Theatre information within this document will be clearly identified as regional, using the regional designations listed below.

- United States (US)
- Caribbean and Latin America and Canada (AI)
- Europe, Middle East and Africa (EMEA)
- Asia Pacific (APAC)

About DECT R4

A complete product description for DECT R4, including market need, technical description, and competitive landscape, can be found in the Partner Business Proposition Document.

Avaya DECT R4 is Avaya's In-building Wireless Communication offer for customers who need a primarily voice wireless solution. It runs on the following Avaya communication platforms

- Communication Manager
- IP Office
- Integral Enterprise and Integral 5

The DECT R4 solution consists of the following:

- Six DECT Wireless Handsets
  - 3730 for office usage (replacement for 3720*)
  - 3735 for office and light industrial usage (replacement for 3725*)
  - 3740 for heavy industrial usage **(discontinued in June 2016)**
  - 3745 for heavy industrial usage including Bluetooth
  - 3749 with ATEX approval (Intrinsically Safe), man-down and no movement alarm sensors.

  *3720 and 3725 will be End of Sale by Mar-18 or before based on the inventory depletion

- Two DECT Radio Base Stations with IP interface for usage with Communication Manager and IP Office
- Two DECT Radio Base Stations with ISDN interface for use with Integral Enterprise and Integral 5
- Application server (AIWS2) for centralized functions like corporate directory, internal phonebook access, simple text messaging, centralized configuration and maintenance, and integration with other external application servers.
- IP DECT Gateway that enables the use of ISDN DECT Radio Base Stations to connect to the IP based interface of Communication Manager and IP Office. This allows customers to reuse their existing digital line wiring.

The DECT R4 solution is especially well suited for verticals like healthcare, retail and manufacturing due to the availability of robust handsets with liquid protection, Bluetooth headset interface and an application server for messaging application.

All handsets and radio base stations support the DECT frequency bands globally with the same hardware and firmware.

Two new features added in the DECT R4 Edition 4 software update are: SRTP for voice encryption and Push-to-talk.

The DECT R4 Edition 5 software update (Feb 2016) includes the following new capability:

- Support for the 3745 DECT Handset
- Interactive Messaging via AIWS2 OAP allows two-way communication between two handsets
- Handset Poll Location Support via AIWS2 OAP allows for querying the location of handsets
- One button calling from text message (3745 and 3749 only)

- Handset sharing on Communication Manager allows more than one user to use a handset.

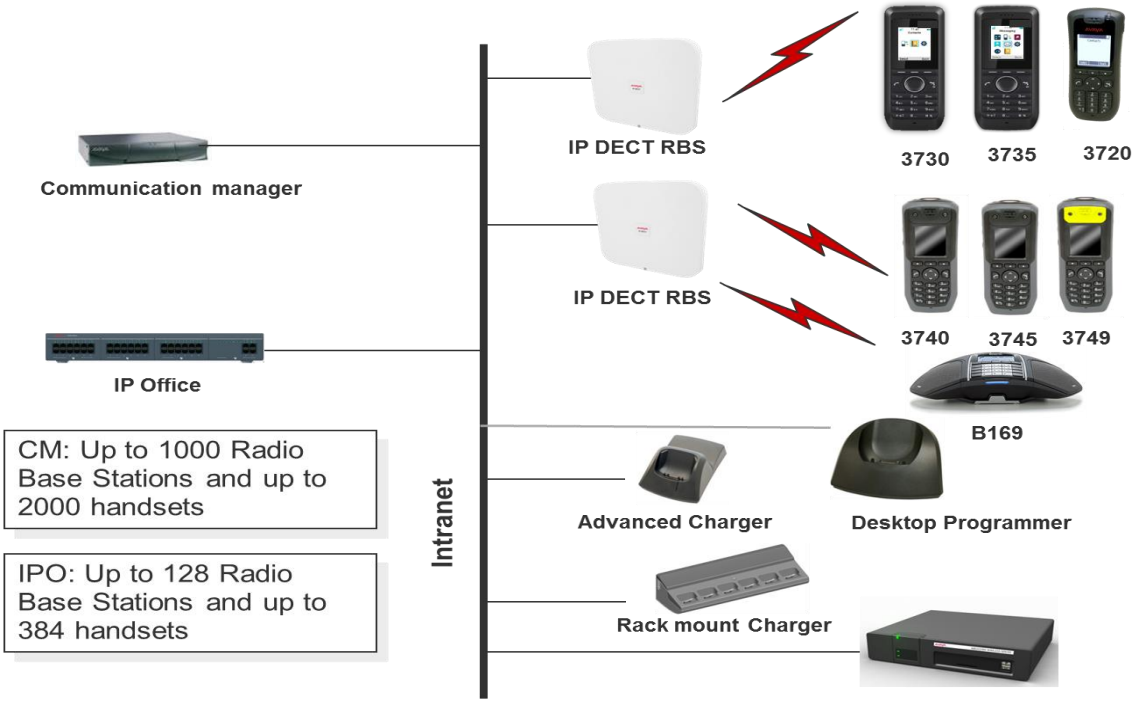
The DECT R4 Edition 6 includes (July 2017) includes the following new capability :

- Support of 3730 and 3735 DECT Handset
- Security enhancements
  a. Support of certificate and password based authentication for HTTPS interfaces. Currently, only username/password mode is allowed.
  b. Support strong TLS cipher suites.
  c. Hardening of the HTTP/S web server security.
  Eg : adding configurable login banner, present last user login information.

Commercial Offer Definition

IP DECT Solution

For Communication Manager and IP Office



ISDN DECT Solution

For Integral Enterprise and Integral 5

Materials – Handsets

All six wireless handsets can be used with the IP DECT and ISDN DECT solution without any firmware change. Adaptation to the different DECT frequencies is done via configuration parameter.

DECT 3730 Handset

3730 is a durable DECT handset with Backlit color TFT screen that facilitates efficient and dependable wireless telephony. It features enterprise-grade telephony with local phonebook, access to central phonebook, voicemail and so much more. The supported features are:

- Color TFT display (1,8” size, 128x160 pixels & 262K colors)
- Local phonebook with 250 entries
- Company phonebook with 1000 entries
- Call list displaying the last 25 calls
- Standard 3.5 mm headset connector
- Hands free operation
- Vibrator
- 19 languages: Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Portuguese Brazilian, Russian, Slovakian, Spanish, Swedish and Turkish + 1 downloadable
- Manual and automatic keypad lock
- Battery type: Li-Ion.
- Stand-by time/Talk time: 170/15 hours* under optimal conditions
- Charge time: < 4 hrs
- DECT protocol detection: Automatic detection and configuration for US DECT and EU DECT at initial registration. Frequency range: EU (1880-1900 MHz), US (1920-1930 MHz), LA (1910-1930 MHz), BR (1910-1920 MHz), other (1900-1920 MHz).

  * **The Integral PBX does not to support handsets to enter Low duty cycle when idle. Hence, the handsets will have shorter stand-by time**.

DECT 3735 Handset

3735 handset will have 2 versions

I. 3735 Standard version
II. 3735 Alarm version

The hardware will remain the same for both version and 3735 Alarm version will have alarm functionality activated by default.

NB: 3735 Alarm version is a separate material code. Not possible to update 3735 Standard version to Alarm version via license afterwards.

3735 features enterprise-grade telephony, professional messaging, Bluetooth, on-site positioning (base station level) and personal alarm[1]. The supported features are:

- Color TFT display (2,0" size, 240x320 pixels & 262K colors)
- Local phonebook with 250 entries
- Company phonebook with 1000 entries
- Call list displaying the last 25 calls
- Standard 3.5 mm headset connector
- Hands free operation
- Vibrator
- Interactive messaging
- Prioritized and color-coded messages
- DECT Security (encryption)
- Push-to-talk (PTT)
- Bluetooth
- Alarm button [1]
- DECT location (base station level, which base station the handset is connected to when the alarm is sent)
- Battery type: Li-polymer
- Stand-by time/Talk time: 240/20 hours [2] without Bluetooth,120/13 hours with Bluetooth
- 19 languages: Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Portuguese Brazilian, Russian, Slovakian, Spanish, Swedish and Turkish + 1 downloadable
- Manual and automatic keypad lock

[1]only used as alarm button in 3735 Alarm version. For 3735 standard it is used as multi-function button.
[2] The Integral PBX does not to support handsets to enter Low duty cycle when idle. Hence, the handsets will have shorter stand-by time.

AVAYA 3735 VARIANT FEATURE COMPARISON

	3735 Standard version	3735 Alarm version
Centralized management	✓	✓
Advanced messaging	✓	✓
DECT location	✓	✓
Bluetooth	✓	✓
Push-button alarm		✓

DECT 3720 Handset

The 3720 is a cost effective handset for office environments. It features the following

- Monochrome display
- Limited full duplex speaker phone[1]
- Graphical user interface
- Four way navigation key
- 2.5 mm standard headset connector
- 4 built-in UI languages (German, English, French, and Spanish). Other UI languages can be downloaded on demand
- Up to 16 hours of talk time and 180 hours of standby time under optimal conditions
- Charge time is less than 4 hours

[1] The full-duplex speakerphone's effectiveness on the 3720 is limited to quiet office environment. The 3720 reverts to half-duplex mode in a noisy environment to avoid howling.

DECT 3725 Handset

The 3725 is a high-end phone for office environments and light industrial environments such as healthcare and retails. The supported features are:

- Color display
- Full duplex speaker phone[2]
- Graphical user interface
- Five-way navigation key
- Bluetooth headset support (Bluetooth 2.0 hands-free profile)
- Liquid and solid particle protection (IP 44)
- Easy exchange of battery pack
- Multi-functions button (alarm call, answer call, etc.)
- Text message support (requires AIWS2 server). The handset can send out messages up to 160 characters. The maximum length of the message received by the 3725 is dependent on the system (up to 1000 characters if sent from AIWS
- 2 with NetPage Web Messaging). It stores 30 sent and received messages in history.
- 2.5 mm standard headset connector.
- 19 built-in UI languages (Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, Polish, Greek, Hungarian, Brazilian Portuguese, Slovakian, Turkish and Russian). Other UI languages can be downloaded on demand.
- Talk time under optimal conditions
    - 13 hours with Bluetooth headset in use
    - 20 hours without Bluetooth headset in use
- Standby time of 120 hours under optimal conditions

[2] The full-duplex speaker phone function on the 3725, 3740, and 3745 incorporates noise cancelling function to improve sound quality and speech intelligibility in a noisy environment. This noise cancelling function needs to be enabled via a configuration parameter.

DECT 3740 Handset

The 3740 is end-of-sale as of 13 June 2016. Refer to the end-of-sale announcement.

The 3740 is designed to meet the needs of workers in tough environments that need an extremely shock and scratch proof phone. The supported features as follows:

- Liquid and dust protection (IP 65)
- Shock Protection IEC 60068-2-32, Procedure 1 from 2 meters (6.5 feet)
- Operating temperature -10°C to +55°C
- Backlit keys and backlit display
- Special headset connector that preserves liquid and dust protection
- Monochrome display
- Four way navigation keys
- Full duplex speaker phone[3]
- Graphical user interface
- Easy exchange of battery pack
- Multi-functions button (alarm call, answer call, etc.)
- Text message support (requires AIWS2 server). The handset can send out messages up to 160 characters. The maximum length of the message received by the 3725 is dependent on the system (up to 1000 characters if sent from AIWS2 with NetPage Web Messaging). It stores 30 sent and received messages.
- 19 built-in UI languages (Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, Polish, Greek, Hungarian, Brazilian Portuguese, Slovakian, Turkish and Russian). Other UI languages can be downloaded on demand.
- Talk time of 18 hours under optimal conditions
- Standby time of 150 hours under optimal conditions

[3] The full-duplex speaker phone function on the 3725, 3740, and 3745 incorporates noise cancelling function to improve sound quality and speech intelligibility in a noisy environment. This noise cancelling function needs to be enabled via a configuration parameter.

DECT 3745 Handset

The 3745 is designed to meet the needs of workers in tough environments that need an extremely shock and scratch proof phone as well as Bluetooth.

The features supported on the 3745 are similar to the 3740 with the following differences:

- Bluetooth headset interface
- Color display
- Talk time of 10 hours with Bluetooth headset in use, 12 hours without Bluetooth.
- Standby time of 90 hours under optimal conditions

DECT 3749 Handset

The 3749 is designed for workers in environments where an intrinsically safe device is required (i.e. chemical plants, mills, etc.) or an alarm button and sensors for man-down or no movement alarm are needed. The 3749's alarm functions can be integrated with security systems for lone worker protection, high security environments such as jails, psychiatric wards, etc.

The 3749, in conjunction with AIWS2 server and conferencing resource, supports Push-to-talk (PTT). Push-to-talk is available on Edition 4 software and is only supported on Communication Manager with Meeting Exchange or Avaya Aura Conferencing as the conference resource. Each

PTT group can be configured to contain up to 15 handsets. Each handset can be part of up to 10 PTT groups.

The features supported on the 3749 are similar to the 3740 with the following differences:

- ATEX and IECEX approval for Gas: II 2G EEx ib IIC T4 and Dust: II 3D Ex ibD 22
- Sensors for man-down and no movement alarm generation
- Bluetooth headset interface
- Push-to-talk
- Color display
- Backlit display but no backlit keys
- Talk time of 10 hours under optimal conditions
- Standby time of 80 hours under optimal conditions

The features supported on the 3749 are similar to the 3745 with the following differences:

- ATEX and IECEX approval for Gas: II 2G EEx ib IIC T4 and Dust: II 3D Ex ibD 22
- Sensors for man-down and no movement alarm generation
- Push-to-talk
- Backlit display but no backlit keys
- Talk time of 10 hours under optimal conditions
- Standby time of 80 hours under optimal conditions

The material codes for the DECT handsets are:

Material Code	Description
700513191	DECT 3730 Handset
700513192	DECT 3735 Handset
700513323	DECT 3735 HANDSET W/ALARM LIC
700466105	DECT 3720 Handset
700466139	DECT 3725 Handset
700479454	DECT 3740 Handset **(end-of-sale as of 13 June 2016)**
700510284	DECT 3745 Handset

Each handset comes with a battery and a belt clip. **Chargers are sold separately.**

Materials – Chargers

Generally, the 372x and 374x phones have different chargers. It is possible to use the 374x basic and advanced chargers for the 3720 and 3725 phones, but the 3740, 3745 and 3749 phones cannot use the 372x chargers.

Basic Charger

The basic charger is used to charge the battery for a single DECT handset. It comes with the charger and AC power supply suitable for the specified region. The material codes are:

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700466253	DECT Handset Basic Charger - EU	✓	✓	✓	✓			
700466261	DECT Handset Basic Charger - UK/NAR/AU	✓	✓	✓	✓			
700500011	DECT Handset Basic Charger - Mexico	✓	✓	✓	✓			
700500012	DECT Handset Basic Charger - Argentina	✓	✓	✓	✓			
700479470	DECT 374x Handset Basic Charger - KIT EU	✓	✓	✓	✓	✓	✓	✓
700500871	DECT 374x Handset Basic Charger - UK/NAR/AU	✓	✓	✓	✓	✓	✓	✓
700500872	DECT 374x Handset Basic Charger - Mexico	✓	✓	✓	✓	✓	✓	✓
700500873	DECT 374x Handset Basic Charger - Argentina	✓	✓	✓	✓	✓	✓	✓

Advanced Charger

The advanced charger is used to charge a single DECT handset and to configure it. It comes with USB and Ethernet connection for handset configuration and firmware update via WinPDM application or the AIWS2 server. It can be used for easy handset replacement by copying the settings from an old handset to a new replacement handset.

The available material codes for advanced charger are:

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700466279	DECT Handset Advanced Charger - EU			✓	✓			
700466287	DECT Handset Advanced Charger - UK			✓	✓			
700466295	DECT Handset Advanced Charger - NAR			✓	✓			
700466303	DECT Handset Advanced Charger - Australia			✓	✓			
700500013	DECT Handset Advanced Charger - Brazil/Mexico			✓	✓			
700500014	DECT Handset Advanced Charger - Argentina			✓	✓			
700479488	DECT 374x Handset Advanced Charger - EU			✓	✓	✓	✓	✓
700500874	DECT 374x Handset Advanced Charger - UK			✓	✓	✓	✓	✓
700500875	DECT 374x Handset Advanced Charger - NAR			✓	✓	✓	✓	✓
700500876	DECT 374x Handset Advanced Charger - Australia			✓	✓	✓	✓	✓
700500877	DECT 374x Handset Advanced Charger - Brazil/Mexico			✓	✓	✓	✓	✓
700500878	DECT 374x Handset Advanced Charger - Argentina			✓	✓	✓	✓	✓

Each item comes with the advanced charger and AC power supply suitable for the specified region.

Desktop Programmer (DP1) - DECT 3730/3735 PROGRAMMER

The DP1 is connected to a PC via the USB port in order to program the phone and has no power.

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700513194	DECT 3730/3735 PROGRAMMER	✓	✓					

Rack Mount Charger

The Rack Mount Charger serves the same functionality as the advanced charger for up to six handsets at the same time. The easy handset replacement function is available in the leftmost slot. All other advanced charger functions are available on all slots.

The material code is:

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700479496	DECT 37xx Handset Rack mount Charger	✓	✓	✓	✓	✓	✓	✓

Multiple Battery Charger

The Multi-Battery Charger is used to charge up to six battery packs in parallel. Only battery packs for 3725 and 3740/3745 are compatible with these multi-battery chargers. The available material codes are:

Material Code	Description	3720	3725	3740	3745	3749
700466329	DECT 3725 Multi-Battery Charger		✓			
700479504	DECT 3740 Multi-Battery Charger			✓	✓	

Battery Charger Rack

The Battery charger rack is used to charge up to six battery packs in parallel. Only battery packs for 3735 are compatible with these multi-battery chargers. The material code is:

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700513193	Dect 3735 battery charger rack		✓					

Materials – Handset Accessories

Headset Adapter W. QD

Quick Disconnect (QD) to 3.5 mm jack cord, with answer/end function

Cord with answer/end function to connect a Jabra Quick Disconnect headset to phones with a 3.5 mm jack interface

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700513197	DECT 373x HEADSET ADPTR W/QD CBL	✓	✓					

Every handset comes with a battery pack and a basic belt clip. The available handset accessories are:

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700466683	DECT 3720/3730 Handset Battery Pack	✓		✓				
700513202	DECT 3735 Handset Battery Pack		✓					
700466691	DECT 3725 Handset Battery Pack				✓			
700500841	DECT 3740 Handset Battery Pack					✓	✓	
700500842	DECT 3749 Handset Battery Pack							✓
700513199	DECT 3730 Handset Leather Case	✓						
700513200	DECT 3735 Handset Leather Case		✓					
700513201	DECT 3730 Battery Cover	✓						
700501829	DECT 3720 Battery Cover			✓				
700513195	DECT 3735 STD BELT CLIP							
700513196	DECT 3735 HANDSET SWIVEL BELT CLIP		✓					
700513197	DECT 373x HEADSET ADPTR W/QD CBL	✓	✓					
700500843	DECT 3749 Battery Pack Opener							✓
700466568	DECT 3720 Handset Basic Belt Clip			✓				
700466337	DECT 3725 Handset Swivel Belt Clip				✓			
700501830	DECT 3725 Handset Standard Belt Clip				✓			

Material Code	Description	3730	3735	3720	3725	3740	3745	3749
700479553	DECT 374x Handset Basic Belt Clip					✓	✓	✓
700479561	DECT 374x Handset Swivel Belt Clip					✓	✓	✓
700471576	DECT 3720 Handset Leather Case			✓				
700471584	DECT 3725 Handset Leather Case				✓			
700479546	DECT 374x Handset Leather Case					✓	✓	✓
700471592	DECT 372x Headset Plug (5 pack)				✓			
700479512	DECT 374x Headset Microphone on boom					✓	✓	✓
700500879	DECT 374x Headset Quick Disconnect Adapter					✓	✓	✓
700479520	DECT 374x HEADSET INDUSTRY					✓	✓	✓
700479538	DECT 374x Headset Adapter					✓	✓	✓

The 3730 and 3735 handsets utilize a standard 3.5 mm headset jack for wired headset connection. The recommended headset to use is Jabra CHILL Corded HDST BLK. This headset needs to be purchased from the market

The 3720 and 3725 handsets utilize a standard 2.5 mm headset jack for wired headset connection. Customers are encouraged to find suitable wired headset through Avaya's DevConnect Marketplace (https://www.devconnectmarketplace.com/).

The 3740, 3745 and 3749 handsets are made with a special headset connector to preserve their liquid and dust protection rating. Customers are encouraged to order the correct accessory from the list above to use with the special headset connector. Depending on the usage environment, the 3749 may require an ATEX approved wired headset. These ATEX approved wired headset is not available from Avaya. Item 700500879 is an adapter for any headset with a quick disconnect plug. Item 700479538 is used as the adapter for 700479520 Pelter headset only. There is no adapter for the standard 2.5 mm headset jack available for the 374x handsets.

Materials – Radio Base Stations (RBS)

The DECT Radio Base Stations of the DECT R4 System are available with an IP interface supported with Communication Manager and IP Office or ISDN (4-wire cable) interface for Integral Enterprise and Integral 5 system. ISDN interface can be used on Communication Manager and IP Office with the use of IP DECT Gateway for customers wanting to take advantage of the 4-wire cabling with longer wiring distance.

All Radio Base Stations support encryption between the handset and base stations and authentication of the handset against the base station. IP DECT RBS V2/V3 and IP DECT Gateway also support encrypted voice (SRTP) between the base station and the communication system on the IP network. SRTP is available with the Edition 4 software and supported on Communication Manager only.

There are two different versions of the DECT Radio Base Stations, one with internal antennas and one with external antennas. The external antenna version has two dipole antennas included in the package and its use is permitted outside of North America only. **Regulation in the US and Canada disallow the use of DECT Radio Base Stations with external antennas.** Additional external antennas with different radiation pattern or gain are available as accessories to replace the standard dipole antenna.

IP DECT Radio Base Stations (IPBS)

The IP DECT Radio Base Stations can be used with Communication Manager and IP Office. It connects directly to a LAN switch using Ethernet cabling. The IP DECT Radio Base Station can be powered by Power-over-Ethernet or by using external power supply that is available as accessories.

Each IP DECT Radio Base Station can handle up to eight concurrent calls. A special protocol for mobility control ensures that active calls are seamlessly handed over from one IP DECT Radio Base Station to the next if users with active calls roam through a building.

The IP DECT Compact Radio Base Station is specially designed as a cost-effective solution for IP Office customers. Each IP DECT Compact Radio Base Station can handle up to four concurrent calls and up to 5 Compact Radio Base Stations can be supported with IP Office.

To ensure the mobility control protocol works and that the entire building is covered by Radio Base Stations, a site survey is needed to determine the number and optimum placement of the

Radio Base Stations within the building. Avaya offers these site surveys as a service by Avaya Professional Services, as well as measurement kits for business partners who want to perform these site surveys on their own.

The mobility control as well as access to the AIWS2 server is performed by a special software application built-in to every IP DECT Radio Base Station. There is no need for an external server to perform the mobility control function.

All IP DECT Radio Base Stations are designed for indoor usage only. Outdoor housing is available as accessory.

The currently available material codes are shown below.

Material Code	Description
700511086	DECT IP RBS V3 W/INT ANTNA
700511087	DECT IP RBS V3 W/EXTL ANTNA
700511088	DECT IP RBS V3 COMPACT IPO
700502016	DECT IP RBS V2 W/INT ANTNA **(EOS June 2017)**
700502015	DECT IP RBS V2 W/EXTL ANTNA **(EOS December 2016)**
700502034	DECT IP RBS V2 COMPACT IPO **(EOS December 2016)**

The RBS V3 models will be phased into production through 2015-2016. They are functionally equivalent to the RBS V2 models.

ISDN DECT Radio Base Stations

ISDN DECT Radio Base Stations can be used directly with Integral Enterprise and Integral 5 systems. They connect directly to the DECT interface cards on these PBX's using UpN cabling and powered through the UpN cabling as well. External power supplies are available as accessories.

The functionality of the ISDN DECT Radio Base Stations is comparable with the IP DECT Radio Base Stations described above, except for the following points:

- Mobility control for seamless handover is handled by the PBX via the UpN cabling
- Text Messaging and AIWS2 phonebook access are not supported
- Software update and over-the-air centralized management capability are not supported using ISDN DECT Radio Base Stations. Customers need to use the advanced charger and rack mount charger for this feature.
- Only access to Integral Enterprise and Integral 5's phone book. No LDAP access available.

ISDN DECT Radio Base Stations can be used on Communication Manager and IP Office with the use of the IP DECT Gateway. Please see the section for IP DECT Gateway for more details.

The currently available material codes for ISDN DECT Radio Base Stations with direct Integral connection are:

Material Code	Description
700511089	DECT ISDN RBS V3 W/INT ANTNA
700511090	DECT ISDN RBS V3 W/EXTL ANTNA
700511091	DECT ISDN UNVRSL RBS V3 W/INT ANTNA TAA
700503191	DECT ISDN UNVRSL RBS W/INT ANTNA **(EOS December 2016)**
700503192	DECT ISDN UNVRSL RBS W/EXTL ANTNA **(EOS June 2017)**
700506351	DECT ISDN UNVRSL RBS W/INT ANTNA TAA

The ISDN RBS V3 models will be phased into production through 2015-2016. They are functionally equivalent to the RBS V2 models.

External Antennas

For the IP DECT and ISDN DECT Radio Base Stations with external antennas, several different antennas are available as accessories, in addition to the standard dipole antenna that comes with each Radio Base Station.

Please note, to achieve proper operation, each Radio Base Station with external antennas needs to have either a dual antenna or two single antennas attached to it. Running a Radio Base Station with only one external antenna connected will disturb the antenna diversity control algorithm and result in severely degraded performance.

Directional Dual Antenna (8 dBi gain)

The Directional Dual Antenna consists of two flat directional antennas housed in a plastic shroud. It is fitted with a 1 meter long coaxial cable and a MCX male connector. The antenna includes a side tilt and a wall bracket by which it can be adjusted in a horizontal plane. The antenna can be mounted on a pole of 40 to 90 mm in diameter by using a steel strap (included).

Directional Single Antenna (10.5 dBi gain)

The Directional Single Antenna is a flat directional antenna housed in a plastic shroud and fitted with a 1 meter long coaxial cable and a MCX male connector. The antenna includes a rotating bracket for wall installation. It can be adjusted in both a vertical and horizontal plane. The mounting bracket allows the installation on a pole of 30 to 60 mm in diameter. A steel strap (10-15 mm) is not included.

Omni-Directional Single Antenna (6 dBi gain)

The Omni-Directional single antenna is an omnidirectional 6 dBi collinear antenna fitted with a 1 meter long coaxial cable and a MCX male connector. It is supplied with a wall bracket and a pole mounting clamp. The pole mounting clamp allows the mounting of the antenna to a pole of 25-37 mm in diameter.

The material codes for the antennas are:

Material Code	Description
700466576	DECT RBS STD ANTNA KIT 10PK
700466535	DECT RBS DIRECTIONAL DUAL ANTNA
700466543	DECT RBS DIRECTIONAL SNGL ANTNA
700466550	DECT RBS OMNIDIRECTIONAL SNGL ANTNA

Radio Base Station Accessories

The available Radio Base Station accessories are:

Material Code	Description
700513356	DECT RBS POWER SUPPLY - UK, US, AU (CHANGEABLE POWER PINS)
700466436	DECT RBS PWR SUPP UK
700466444	DECT RBS PWR SUPP EU
700466451	DECT RBS PWR SUPP US **(EOS – June 2017)**
700466469	DECT RBS PWR SUPP AU
700501200	DECT RBS OUTDOOR HOUSING V2
700501201	DECT RBS POLE MNTG KIT V2
700466071	DECT RBS CEILING MNTG KIT 10PK

The new DECT RBS POWER SUPPLY - UK, US, AU (CHANGEABLE POWER PINS) will be available from MARCH 2017. It will comply with new level VI requirement for US.

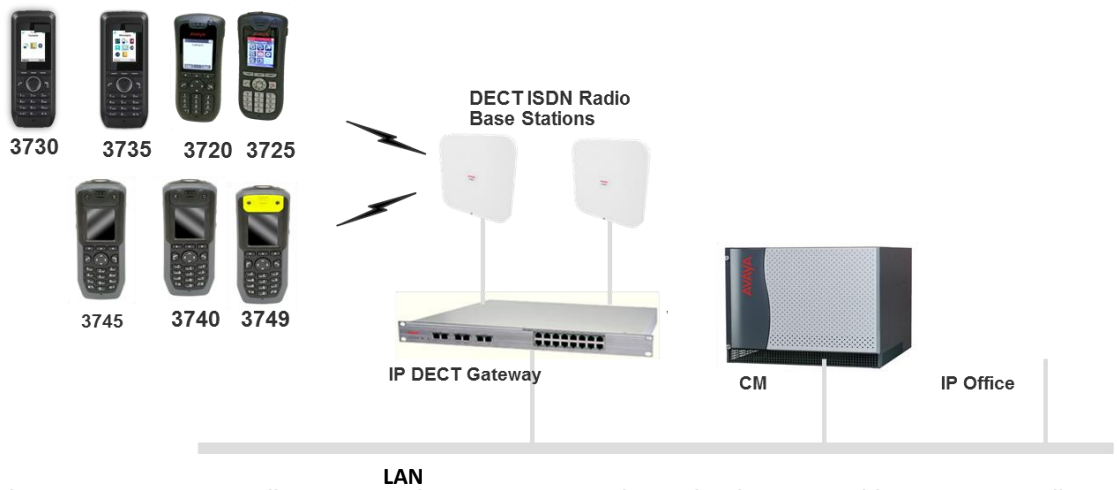
The existing power supplies will continue to be sold till the stock gets depleted.

Material Code	Description	Replacement code	Description
700466436	DECT RBS POWER SUPPLY UK	700513356	DECT RBS POWER SUPPLY - UK, US, AU (CHANGEABLE POWER PINS)
700466451	DECT RBS POWER SUPPLY US		
700466469	DECT RBS POWER SUPPLY AU		

The base stations support Power over Ethernet and most customers connect the base stations to PoE switches. The Power Supplies listed above provide an alternative for customers who prefer not to use PoE switches. Another alternative is the SPPOE injector sold for use with the 9600-series. **NOTE: Only PoE is supported in Brazil.**

Materials – IP DECT Gateway (IPBL)

The IP DECT Gateway allows the use of ISDN DECT Radio Base Stations on an IP interface with Communication Manager and IP Office. The IP DECT Gateway translates between the IP interface on the Communication Manager and IP Office and the 4-wire digital interface on the ISDN DECT Radio Base Stations.



These ISDN DECT Radio Base Stations can operate in a mixed system with IP DECT Radio Base Stations and will be able to sync with IP DECT RBS, connect to an IP DECT RBS Master

and support roaming and seamless handover of calls. Alternatively, the IP DECT Gateway can act as the sync master in a purely ISDN DECT Radio Base Station system.

Each IP DECT Gateway can support up to 16 ISDN DECT Radio Base Stations. The maximum wiring distance between the IP DECT Gateway and ISDN DECT Radio Base Station is 1500 meters.

The material code for IP DECT Gateway is:

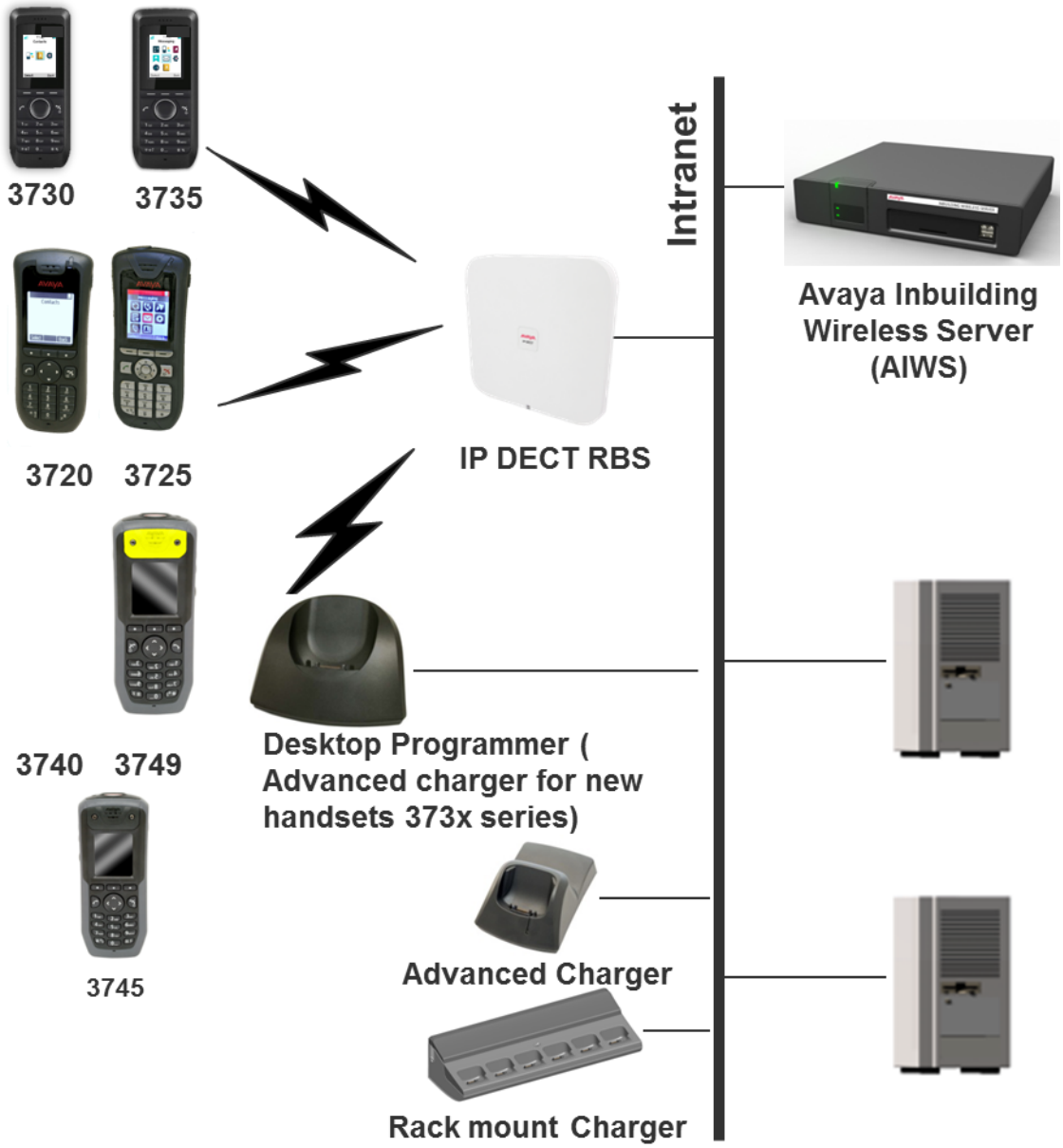
Material Code	Description
700501993	DECT IP DECT GATEWAY

The following material codes for ISDN DECT Radio Base Stations are compatible with the IP DECT Gateway:

Material Code	Description
700503191	DECT ISDN UNVRSL RBS W/INT ANTNA
700503192	DECT ISDN UNVRSL RBS W/EXTL ANTNA
700506351	DECT ISDN UNVRSL RBS W/INT ANTNA TAA
700511089	DECT ISDN RBS V3 W/INT ANTNA
700511090	DECT ISDN RBS V3 W/EXTL ANTNA
700511091	DECT ISDN UNVRSL RBS V3 W/INT ANTNA TAA

The ISDN RBS V3 models will be phased into production through 2015-2016. They are functionally equivalent to the RBS V2 models.

Materials – Avaya In-building Wireless Server (AIWS2)



The Avaya In-building Wireless Server (AIWS2) is a Linux-based application server that adds additional features and functionality to the DECT R4 solution. It is an optional component and is not mandatory for the installation or for the operation of a DECT R4 system.

The additional functions provided by the AIWS2 server when used with IP DECT are as follows:

- Centralized software upgrade through over-the-air method (with IP DECT only) or via the Intranet using the advanced charger or rack mount charger.

- Centralized remote handset configuration (including phonebook import) through over-the-air method (with IP DECT only) or via the Intranet using the advanced charger or rack mount charger
- Text messaging server, usable with 3725, 3740, 3745 and 3749 handsets.
    - Text messaging from handset to handset
    - Text messaging from web interface to handset
    - Netpage Webmessaging (message reception confirmation, forwarding or unconfirmed messages, etc.) from web interface to handset
- External phonebook access via LDAP and IP Office (TFTP)
- Internal phonebook (500 entries via web interface and 2000 entries via Excel import)
- OAP (Open Access Protocol) is used for integration of 3rd party application servers
- Virtual SIM card to allow backup/restore of individual handset's configuration
- Push-to-talk (PTT) configuration and PTT call flow support
- Interactive messaging (not supported on 3740)
- Poll Location Support (not supported on 3740)

The AIWS2 servers are sold as complete hardware/software bundles with a preinstalled set of licenses for different features. Several AIWS2 servers can be used in parallel for additional capacity and capability.

Note: The AIWS2 Basic server does not support DECT R4 installations with multiple Master RBS and one central AIWS2 server. It is not possible to use any additional AIWS2 server in parallel with an AIWS2 Basic server.

AIWS2 Basic including hardware and license with central phonebook, SMS handset to handset, basic web messaging and handset configuration for maximum 32 handsets.

AIWS2 Basic+ including hardware and license with SMS handset to handset, basic web messaging and centralized device management for maximum 32 devices.

AIWS2 Standard including hardware and license with central phonebook, SMS handset to handset, advanced web messaging, group handler and centralized device management for maximum 120 devices.

AIWS2 OAP including hardware and license with central phonebook, SMS handset to handset, basic web messaging and OAP messaging protocol.

AIWS2 Enterprise including hardware and license with central phonebook, SMS handset to handset, basic web messaging, group handler, and centralized device management for maximum 1 000 devices.

Multiple AIWS

All AIWS2 variants except AIWS2 Basic can be combined in the same system. However only one can be configured to have connection to the IP-DECT system.
AIWS2 Basic is not expandable

Central Phonebook

Direct import from IPO via TFTP is supported
Phonebook source:
Internal database

External database via LDAPv3 connection**1**

1. Requires AIWS2 Standard or AIWS2 Enterprise

The following list shows the different bundles and their available feature sets:

	Basic	Basic+	Standard	OAP	Enterprise
NTP server	✓	✓	✓	✓	✓
Built-in central phonebook	✓	✓	✓	✓	✓
Access to corporate directory (LDAP with CM and TFTP with IP Office)	✓ IPO only	✓ IPO only	✓ IPO and LDAP		✓ IPO and LDAP
SMS handset to handset	✓	✓	✓	✓	✓
Basic web messenging	✓	✓	✓	✓	✓
NetPage web messenging			✓		
Interactive Messaging				✓ (OAP4)	
Poll Location Support				✓ (OAP4)	
Software upgrade over-the-air		✓ up to 32 handsets	✓ up to 120 handsets		✓ up to 1000 handsets
Software download via advanced/rack charger		✓ up to 32 handsets	✓ up to 120 handsets		✓ up to 1000 handsets
Centralized handset configuration over-the-air	✓ up to 32 handsets	✓ up to 32 handsets	✓ up to 120 handsets		✓ up to 1000 handsets
Centralized handset configuration via advanced/rack charger	✓ up to 32 handsets	✓ up to 32 handsets	✓ up to 120 handsets		✓ up to 1000 handsets
Backup/restore of handset configuration			✓ up to 120 handsets		✓ up to 1000 handsets
OAP - AIWS as application integration middleware				✓	
Push-to-talk group handler			✓ up to 120 handsets		✓ up to 1000 handsets

LDAP is used towards the CM and TFTP is used towards the IPO for the central phonebook.

AIWS can get the contacts from IP Office through TFTP (maximum limit 5000). It can also use an External LDAP server to which it will connect directly. While connecting AIWS with IP Office a Security checkbox needs to be enabled "TFTP Directory Read".

A directory of telephone numbers can be retrieved from an LDAP or TFTP server and displayed

on IP DECT handsets. With IP Office, the IP Office control unit can act as the TFTP server source for its own user numbers and external directory numbers.

It is possible to centrally manage the software of the advanced and rack mount chargers using AIWS2. Each of the advanced and rack mount charger consumes one of the handset license in the supporting AIWS2.

Starting with DECT R4 Edition 2 onward (launched on March 2010), it is possible to manually distribute the managed handsets from one site between two AIWS2 servers or to assign handsets from several sites to a single AIWS2 server.

The full feature set of AIWS2 servers is available with IP DECT only (with the use of IP DECT Radio Base Station or IP DECT Gateway). A smaller subset of features is available for ISDN DECT as well. They are:

- Centralized software download via the use of advanced and rack mount chargers
- Centralized remote handset configuration using the advanced and rack mount chargers
- Virtual SIM card using the advanced and rack mount chargers

The AIWS2 server is 19-inch rack mountable and wall mountable in a “pizza box” form factor. There is a built-in power supply. The available material codes are:

Material Code	Description
700501480	DECT AIWS2 BASIC
700501481	DECT AIWS2 BASIC+
700501482	DECT AIWS2 STANDARD
700501483	DECT AIWS2 OAP
700501484	DECT AIWS2 ENTERPRISE

AIWS2 Accessories

One of two kits is required to mount one or two AIWS2 servers in a 19-inch rack:

- The front mounting kit (700501780**)** allows you to mount one AIWS2 alone or two AIWS2s side-by-side such that the front of the unit are flush with the front or back of a 19-inch rack.

- The reverse mounting kit (700501781) allows you to mount one AIWS2 alone or two AIWS2s side-by-side such that the back of the units are flush with the front or back of a 19-inch rack.

Material Code	Description
700501780	DECT AIWS2 FRONT MNTNG KIT
700501781	DECT AIWS2 REVERSE MNTNG KIT

Materials – Site Survey Tool

A site survey is essential before a DECT R4 system can be quoted. The purpose of the site survey is to determine how many Radio Base Stations are required to provide the radio coverage required by the customer and to find the optimum locations of these Radio Base Stations.

Material Code	Description	Contents
700501216	DECT SITE SURVEY KIT V2 W/BATTERY	• One carrying case • Two brackets for placing the base stations on e.g. a door or on a tripod • Two battery cables to connect the battery to the radio base station • Two battery chargers • AC power supply for battery chargers with interchangeable plugs for EU, UK, US and Australia • Two battery packs • User guide Can be used only in EU, US, Canada, Singapore and UAE
700501217	DECT SITE SURVEY KIT V2 W/O BATTERY	• One carrying case • Two brackets for placing the base stations on e.g. a door or on a tripod • Two 0.5 m cable with DC plug • User guide Can be used in all countries where the DECT R4 portfolio can be sold

Customers or business partners who are purchasing the site survey kits are required to obtain two IP DECT Radio Base Stations and one handset (3725 or 3740). **Radio Base Stations and handsets are not included in the site survey kit and have to be purchased separately.**

Compatibility with Legacy IP DECT Systems

The IP DECT Radio Base Stations on the DECT R4 system and the older RFP32/RFP34 Radio Base Stations use different proprietary protocols for communication between the base stations. These two types of Radio Base Stations are not compatible with each other.

Running two independent DECT systems, one being the new DECT R4 system and the other being the legacy IP DECT system, in parallel and attached to a single Communication Manager is possible. In this case, extreme care has to be taken so the air coverage of these two independent systems do not overlap. Otherwise, roaming from one system to another will not work properly. It is not possible to run the legacy IP DECT system with DECT R4 in parallel on IP Office.

An important aspect of both systems is that getting time and date from the PBX is implemented in both systems in different and incompatible ways. As all DECT handsets don't have buffered real-time clocks this means that after changing the battery pack on a non-system handset date and time have to be set again. Nevertheless from DECT R4 Edition 3 on this is done automatically by reading the DECT system clock provided that the handset was no longer than 30 days without power.

Running IP DECT handsets on a DECT R4 system

The legacy IP DECT handsets 3701 and 3711 are **not** supported on the DECT R4 system.

Running IP DECT and DECT R4 systems in parallel

Having 2 installations (IP DECT, DECT R4) physically parallel is possible on CM. They are logically different DECT systems, so the legacy 3701 and 3711 handsets can be connected to the IP DECT system and new handsets can be connected to DECT R4.

Handover (during active call) between both systems is not possible. Roaming from one system to the other can be made possible. In this case a phone needs to be registered on both DECT systems. It can re-use the extension number because it can only be active on one system at a time. Switching between the systems can be done manually by changing the system on the phone or by automatic system search (but this is clearly discouraged as this could have strange effects when both systems are physically together and would result in the handset frequently changing back and forth between the systems).

The interference between the systems can be reduced by synchronizing the DECT R4 Sync Master IP Radio Base Station over the air to the IP DECT system. Then both systems will have the same slot timing and "sliding collision" can be avoided.

Compatibility with B169 Conference Phone

Avaya B169 Conference Phone with release 1.2.2 or later software can be used with Avaya DECT R4.

B169 is only available for the regions/countries where DECT frequency band is allowed by the respective Telecom regulatory authority (TRA).

DECT Frequency range supported region/countries

- EU: 1880-1900 MHz
- US/Canada: 1920-1930 MHz

The 1880-1900MHz frequency are also officially allowed in Middle East, APAC, countries incl Australia & South Africa.

DECT Frequency ranges are not supported region/countries
• CALA: 1910-1930 MHz
• Brazil: 1910-1920 MHz

DECT products are officially not allowed to sell in India, China, Philippines & Thailand.

The features supported by the B169:

Subscription with PARK
Basic Call
Roaming
R-Key Handling (Enquiry call, Conference,)
DTMF during call
Local time and date

Compatibility with Legacy ISDN System

The handsets and ISDN Radio base stations are fully compatible with the legacy ISDN DECT system. Mixed usage of legacy and new components in one system is possible.

Messaging via MACS server supported.

As getting time and date from the PBX is generally not implemented with ISDN DECT and the 372x and 374x phones don't have buffered real-time clocks, changing the batteries of the phones will generally reset the clock so that time and date have to be set again. Nevertheless from DECT R4 Edition 3 on this is done automatically by reading the DECT system clock provided that the handset was no longer than 30 days without power.

No support for the DECT2 board of the Integral 33 systems.

Compatibility with Other 3rd Party DECT Handset

The DECT R4 IP DECT and ISDN DECT Radio Base Stations support 3rd party DECT handsets based on the GAP standard (without the optional connection handover feature). This means that basic telephony is possible with all 3rd party handsets that support GAP at a minimum, but if the user wishes to keep active calls while walking from one Radio Base Station to the next one, 373x, 372x and 374x handsets are required.

All other features (number display etc.) may or may not work depending on the individual handset type and cannot be guaranteed by Avaya.

Product Bundling

- The 37xx DECT Handsets come with battery and basic belt clip.
- **Handsets do not include chargers. Chargers are ordered separately.**
- IP-DECT RBS is PoE powered. In location where PoE is not available, AC power supply can be ordered as accessory.
- IP DECT Gateway can be DC or AC powered. AC power supply is built-in but the power cord with IEC C13 connector is not supplied in box.

- AIWS2 can be DC or AC powered. AC power supply is built-in but the power cord with IEC C7 connector is not supplied in the box.
- Rack mount charger needs a power cord. Power cord with IEC C13 connector is not supplied in box.
- Multiple battery charger needs a power cord. Power cord with IEC C13 connector is not supplied in box.
- Site survey kits require the use of two IP-DECT Radio Base Stations and a 3725 or 3740 handset. The IP DECT Radio Base Stations and DECT handset are not included in the survey kit.

Administration Tools

Please see the Installation and Administration Manual for more details.

The PDM makes it possible to edit parameters, update software in the devices and upload files. It can save parameters and software for individual sites in a database.

The IP DECT Radio Base Stations, IP DECT Gateway and AIWS2 are administered through the built-in web interface.

The Desktop Programmer (DP1) is USB cord to the 373x handsets. The DP1 does not have any parameters which mean no parameter programming is needed. USB drivers for the 373x handsets using the DP1 are available in WinPDM 3.13.2.

Network Design

To ensure voice quality, perform a Network Assessment of the LAN before an installation or when you add new applications or users.

When you design a network, ensure the following to obtain optimal performance:

- The infrastructure should be connected to a switched network without hubs or repeaters.
- When you set up a network that supports both voice and data, voice and data must be on different VLANs.
- The maximum capacity of the VoIP traffic must not exceed 25% of the network capacity.
- Maximum capacity of the network may not exceed 75% of the total capacity of the network, including the VoIP traffic.
- The network must not use firewalls.
- Use a backbone of at least 100 Mbps depending on the network size.

In a switched network, the transmission delay should not be a problem but if voice traffic is routed, a significant transmission delay might be added. If the transmission delay is too long an echo appears in the voice path impacting the systems voice quality. The transmission delay also adds to the speech delay. Jitter in voice packages also adds to the speech delay. You can use several tools from third-party vendors that can provide detailed and useful information when performing site surveys.

Product Specifications

Interoperability Matrix

The DECT R4 solution interoperates with the following communication solutions:

- DECT release 4.6 supports CM 7.1.0 & 7.0.1.2.0, 6.2 FP4 SP11, 4.5 supports CM 6.3.8 and 4.4 supports 5.2.1.IP Office release 4.0 or newer for basic support (no provisioning).
- IP Office release 7.0 or higher is needed for provisioning support. IP Office 8.0 or higher is needed for IP DECT Gateway support.
- IP Office 9.1.8 or higher is needed for IP DECT ISDN RBS V3 support.
- IP Office 10.0 or higher is needed for 3745 DECT Handset.
- IP Office 10.1, 9.1 SP11, 10.0 SP4 and is needed for 3730 & 3735 DECT Handset.
- IP Office 9.1 3 or higher is needed for IP DECT RBS V3.
- Integral Enterprise with Software L060v08_3_3.0 + >= Patch 007 for 373x handset SW 2.1.4
- Integral 55 with Software E070v09.2.5 + >= Hotfix 7 for 373x handset with SW 2.1.4
- Integral Enterprise with Software >=L060v08_3_1.0 for 372x/374x SW 4.5.2
- Integral 55 with Software E070v09.2.5 for 372x/374x SW 4.5.2

Refer to the software readme files for additional information on supported releases associated with each software release.

Product Capacity

On Communication Manager, each DECT system supports of up to 1023 IP DECT Radio Base Stations, up to 240 IP DECT Gateways (3840 DECT ISDN Radio Base Stations) and up to 2000 handsets.

100 IP DECT Gateways is the maximum for one sync ring but it is possible to connect multiple sync rings together to achieve the 240 IP DECT Gateway limit per DECT system.

Each Communication Manager can support multiple DECT systems.

Up to 128 IP DECT Radio Base Stations and up to 384 DECT handsets are supported on IP Office (release 8.1 Feature Pack 1 or later). Only 5 Compact IP DECT Radio Base Stations are supported on IP Office.

Speech channel capacity on each device:

IP DECT Radio Base Station	8 simultaneous calls
Compact IP DECT Radio Base Station	4 simultaneous calls
ISDN DECT Radio Base Station	8 simultaneous calls
IP DECT Gateway	40 simultaneous calls

License Requirement

Communication Manager user licenses for DECT R4 are included. No additional user license is required.

IP Office user license for DECT R4 are not included. Avaya IP endpoint license is required.

Integral Enterprise and Integral 5 user license for DECT R4 are technically not required.

Product Documentation

Sales collateral is located at:

http://www.avaya.com/usa/product/3700-series-dect-handsets
https://sales.avaya.com/en/pss/3700-series-dect-wireless

Support Information (DECT R4)
http://support.avaya.com/products/P0474/ip-dect-phones

Security Feature

For greater security, the IP-DECT R4 solution offers the following:

- Edition 4 software enhances over-the-air security of the IP-DECT Radio Base Stations and the handsets to the latest ETSI standard for security (ETSI TS 102 841 V1.2.1). The enhancement allows early encryption and re-keying during an ongoing call. It also addresses the security risk of staying permanently open for registration by placing registration activation under user's control.

- Secure Real-time Transport Protocol (SRTP) is available in Edition 4 software for voice channel encryption on the IP network

Services and Support

Service Offers

Avaya provides several levels of maintenance service in support of customer's DECT R4 hardware.

- Parts Plus Remote Support 24x7: This coverage extends the benefits of Parts Plus Remote Support to twenty-four (24) hours per day, seven (7) days per week, three hundred sixty-five (365) days per year for major failures. There is an additional cost for this coverage option.

24x7 Parts Plus Remote Support options include:

- 24x7 access to remote maintenance assistance, documentation, and other information via web-enabled case-based reasoning tools on http://avaya.com/support
- Advanced replacement by mail of any covered parts Avaya determines to be inoperative during the hours of 8:00 am to 5:00 pm in the time zone of the covered products, Monday through Friday, excluding Avaya holidays.

Parts Plus Remote services are provided on the handsets[4], radio base stations and AIWS2 servers.

- Full Coverage 8x5: Provides coverage during standard business hours. Requests for support outside the standard business hours may be accommodated at Avaya's option and will be subject to Avaya's then current per incident maintenance rates.

- Full Coverage 24x7: This coverage extends the benefits of Full Coverage to twenty-four (24) hours per day, seven (7) days per week, three hundred sixty-five (365) days per year for major failures. There is an additional cost for this coverage option.

Both 8x5 and 24x7 Full Coverage options include:

- 24x7 access to remote maintenance assistance, documentation, and other information via web-enabled case-based reasoning tools on http://avaya.com/support
- On-site replacement of any covered part Avaya determines to be defective.
- If Avaya determines on-site intervention is required, 8x5 coverage provides the dispatch of Avaya's field technical resources 8:00am to 5:00pm in the time zone of the covered products, excluding Avaya holidays, including engineering support. 24x7 coverage extends this support to all Major Failures twenty-four (24) hours per day, seven (7) days per week, and three hundred sixty-five (365) days per year.
- Note: On-site support of terminals is limited to functional locations. Individual terminals located in remote offices or personal residences must be brought to a functional location for on-site support or a replacement part can be mailed directly to the remote location.

[4] In APAC & EMEA, Avaya will not provide maintenance on any type of DECT R4 handsets and accessories (direct and indirect). DECT Handsets and accessories are considered as consumable items in these regions and are only eligible for warranty repair.

When the customer purchases maintenance services on the DECT R4 hardware, all coverage and billing begins Day One.

If during or post hardware warranty period, customer chooses not to subscribe to Avaya maintenance, service is performed on a time and material basis. All the terms and conditions are determined locally and are available to customers through the local account teams.

Actual terms and conditions are established per region. Please contact the appropriate regional manager for in-country support capabilities.

The Service Agreement Supplement (SAS) for this offer is located at the following link: https://sales.avaya.com/documents/1399552203796 and contains exclusions which apply to Parts coverage.

Special Note for APAC & EMEA:

Avaya will not provide maintenance on any type of DECT R4 handsets and accessories (direct and indirect) in these regions. DECT Handsets and accessories are considered as consumable items and are only eligible for warranty repair.

Maintenance offers for Germany are available by e-Offer within SAP-Atlas on a per product basis. Depending on the customer needs, several types of offers including maintenance are possible (Maintenance only, Rental, Managed Services). Also, several levels of support (SLA) with or without on-site service are possible. Standard EMEA offers are applicable for indirect customers.

Avaya Global Services' Remote Support Option for Authorized Business Partners

To better support our Business Partners (BP) in remaining responsive to their end user customers, Avaya offers three levels of maintenance offers for our Authorized Business Partners:

1. Avaya Global Maintenance Support for the Hardware: Each level of maintenance service is available in both the retail (commission-based) or wholesale model.

2. Partner Support Services (PSS) Offer: The PSS offer enables a Business Partner to bundle Avaya's expertise with the individual Business Partners capability. There are specific requirements for BP access to this offer. The PSS offer provides the same level of maintenance services available in retail and wholesale, (Parts Plus Remote 24X7 and 8X5, and Onsite 24X7 and 8x5).

3. Per Incident, or Time and Material billing: normally used to resolve a particular situation. Customers not covered under Hardware maintenance are eligible for T&M only if they are covered under one of the Software Support options.

PCN/PSN Strategy

Product Correction Notice (PCN) and installation support will be provided to all Avaya DECT R4 customers. Customers with warranty and post warranty coverage will typically receive special consideration for the time and material charges, if applicable, to a specific product and configuration. PCNs are a function of the life cycle of the products. PCN installations will take place between the hours of 8am to 5pm (local time), Monday through Friday, excluding Avaya recognized holidays. Special billing consideration will be given to customers who either have an Avaya Service Agreement or are under warranty, up to but not exceeding an installation absent of labor and material charges. The determination of PCN charges, if any, will be determined on a case-by-case basis by Avaya. Customers who are listed as the technical contact will typically be mailed a letter regarding the PCN notification.

Avaya U.S. Direct Customers: U.S. Field Service Organization (FSO) technicians will implement this Change Notice for Avaya U.S. Direct Customers. The Emerging Technologies Solutions Support (ETSS) group and the FSO Change Notice Administration Groups will handle scheduling and coordination.

Avaya U.S. BP: Avaya Business Partners who elect to perform the work to implement this Change Notice will be responsible for scheduling and coordinating their customer base. Those who elect to have Avaya perform the work will schedule and coordinate through the Emerging Technologies Solutions Support (ETSS) team.

Avaya International: Scheduling of customers requiring a Change Notice will be handled through the Emerging Technologies Solutions Support (ETSS) team.
When the need arises for Avaya to replace defective components, Avaya Labs will issue a Product Correction Notice (PCN). The standard PCN process applies for Session Manager and System Manager. Some components can be upgraded without the need for a field dispatch.

The same for PSN info Product Support Notices which replace Service Alerts are issued by Tier 4 Engineers and/or Product Managers to notify the field of technical workarounds, process information, or document corrections/clarifications in addition to software/firmware updates and hardware replacements.

For a list of issued PSNs, go to the Avaya Support Center (http://avaya.com/support) and search under **Additional Information** for **Product Support Notices**.

Warranty

Avaya Inc. provides a one-year limited warranty on the DECT R4 hardware. Refer to the sales agreement or other applicable documentation to establish the terms of the limited warranty. In addition, Avaya's standard warranty language as well as details regarding support, while under warranty, is available through the web site: http://support.avaya.com. Region specific terms and conditions are determined locally are available to customers through respective account teams or in their Avaya agreement.

Availability

The table below reflects availability of this portfolio in countries globally. The information is accurate as of the publication date of this document.

Country	Allowed	Not Allowed	Notes	SAP Exclusion	Notes
Afghanistan		×	No frequency allocated	×	
Albania		×	Not allowed per government regulation	×	
Algeria					EU: 1880-1900 MHz
American Samoa		×	No frequency allocated	×	
Andorra		×	No frequency allocated	×	
Angola		×	No frequency allocated	×	
Anguilla		×	No frequency allocated	×	
Antigua and Barbuda		×	No frequency allocated	×	
Argentina	✓				1910-1930 MHz, 100mW
Armenia		×	No frequency allocated	×	
Aruba		×	No frequency allocated	×	
Australia	✓		22dBm power limit		1880-1900 MHz, 22dBm (158 mW)
Austria	✓				EU: 1880-1900 MHz, 250mW
Azerbaijan		×	No frequency allocated	×	
Bahamas		×	No frequency allocated	×	
Bahrain				×	EU: 1880-1900 MHz
Bangladesh		×	No frequency allocated	×	
Barbados		×	No frequency allocated	×	
Belarus		×	No frequency allocated	×	
Belgium	✓				EU: 1880-1900 MHz, 250mW
Belize				×	1920-1930 MHz, 22dBm
Benin		×	No frequency allocated	×	
Bermuda		×	No frequency allocated	×	
Bhutan		×	No frequency allocated	×	
Bolivia			in country partner approval	×	1910-1930 MHz, 250mW
Bosnia and Herzegovina		×	No frequency allocated	×	
Botswana					EU: 1880-1900 MHz
Brazil	✓		Requires special type approval.		1910-1920 MHz, 250mW, only frequencies 17-21
British Virgin Islands		×	No frequency allocated	×	
Brunei		×	No frequency allocated	×	
Bulgaria	✓				EU: 1880-1900 MHz, 250mW
Burundi		×	No frequency allocated	×	
Cambodia		×	No frequency allocated	×	
Cameroon		×	No frequency allocated	×	
Canada	✓				US: 1920-1930 MHz, 100mW
Cape Verde		×	No frequency allocated	×	
Cayman Islands		×	No frequency allocated	×	
Central African Republic		×	No frequency allocated	×	
Chad		×	No frequency allocated	×	
Chile			22 dBm power limit	×	1910-1930 MHz, 22dBm (158 mW)
China		×	No frequency allocated	×	Under negotiation.
Colombia		×	No frequency allocated	×	

Country	Allowed	Not Allowed	Notes	SAP Exclusion	Notes
Comoros		×	No frequency allocated	×	
Congo, Democratic Republic of the		×	No frequency allocated	×	
Congo, Republic of the		×	No frequency allocated	×	
Costa Rica			in country partner approval	×	1910-1930 MHz, 250mW
Croatia				×	EU: 1880-1900 MHz, 250mW
Cuba		×	No frequency allocated	×	
Cyprus	✓				EU: 1880-1900 MHz, 250mW
Czech Republic	✓				EU: 1880-1900 MHz, 250mW
Denmark	✓				EU: 1880-1900 MHz, 250mW
Dominica		×	Not allowed per government regulation	×	
Dominican Republic		×	No frequency allocated	×	
East Timor		×	No frequency allocated	×	
Ecuador			in country partner approval	×	1910-1930 MHz, 250mW
Egypt				×	EU: 1880-1900 MHz, 250mW
El Salvador			in country partner approval	×	1910-1930 MHz, 250mW
Equatorial Guinea		×	No frequency allocated	×	
Eritrea					1800-1900 MHz
Estonia	✓				EU: 1880-1900 MHz, 250mW
Ethiopia		×	No frequency allocated	×	
Fiji		×	Not allowed per government regulation	×	
Finland	✓				EU: 1880-1900 MHz, 250mW
France	✓				EU: 1880-1900 MHz, 250mW
French Guiana		×	No frequency allocated	×	
French Polynesia		×	No frequency allocated	×	
Gabon		×	No frequency allocated	×	
Gambia		×	No frequency allocated	×	
Georgia		×	No frequency allocated	×	
Germany	✓				EU: 1880-1900 MHz, 250mW
Ghana		×	No frequency allocated	×	
Gibraltor		×	No frequency allocated	×	
Greece	✓				EU: 1880-1900 MHz, 250mW
Greenland					1880-1900 MHz
Grenada		×	Not allowed per government regulation	×	
Guadeloupe		×	No frequency allocated	×	
Guam		×	No frequency allocated	×	
Guatemala			in country partner approval	×	1910-1930 MHz, 250mW
Guernsey		×	No frequency allocated	×	
Guinea		×	No frequency allocated	×	
Guinea-Bissau		×	No frequency allocated	×	
Guyana		×	No frequency allocated	×	
Haiti		×	No frequency allocated	×	
Holy See (Vatican City)		×	No frequency allocated	×	
Honduras			22 dBm power limit	×	1920-1930 MHz, 22dBm (158 mW)
Hong Kong	✓				EU: 1880-1900 MHz, 250mW
Hungary	✓				EU: 1880-1900 MHz, 250mW
Iceland					EU: 1880-1900 MHz, 250mW

Country	Allowed	Not Allowed	Notes	SAP Exclusion	Notes
India		×	No frequency allocated	×	Under negotiation.
Indonesia				×	EU: 1880-1900 MHz, 250mW
Iran		×	Not allowed per government regulation	×	
Iraq					1880-1900 MHz
Ireland	✓				EU: 1880-1900 MHz, 250mW
Israel				×	EU: 1880-1900 MHz, 250mW
Italy	✓				EU: 1880-1900 MHz, 250mW
Jamaica		×	No frequency allocated	×	
Japan		×	Special frequency to avoid PHS	×	1894-1906, 250mW
Jersey		×	No frequency allocated	×	
Jordan			100 mW power limit	×	1880-1900 MHz, 100mW
Kazakhstan		×	No frequency allocated	×	
Kenya		×	No frequency allocated	×	
Korea, North		×	No frequency allocated	×	
Korea, South		×		×	1790-1900 MHz
Krygyzstan		×	No frequency allocated	×	
Kuwait		×	No frequency allocated	×	
Laos		×	No frequency allocated	×	
Latvia	✓			×	EU: 1880-1900 MHz, 250mW
Lebanon		×	No frequency allocated	×	
Lesotho					1900-1920 MHz, 250mW
Liberia		×	No frequency allocated	×	
Libya		×	No frequency allocated	×	
Liechtenstein				×	EU: 1880-1900 MHz, 250mW
Lithuania	✓				EU: 1880-1900 MHz, 250mW
Luxembourg	✓				EU: 1880-1900 MHz, 250mW
Macau		×	No frequency allocated	×	
Macedonia				×	1800-1900 MHz
Madagascar		×	No frequency allocated	×	
Malawi		×	No frequency allocated	×	
Malaysia			100 mW power limit	×	1880-1900 MHz, 100mW
Maldives		×	No frequency allocated	×	
Mali		×	No frequency allocated	×	
Malta	✓				EU: 1880-1900 MHz, 250mW
Martinique		×	No frequency allocated	×	
Mauritania		×	No frequency allocated	×	
Mauritius		×	No frequency allocated	×	
Mexico	✓		Requires special type approval		1910-1930 MHz, 250mW
Moldova					EU: 1880-1900 MHz, 250mW
Monaco		×	No frequency allocated	×	
Mongolia		×	No frequency allocated	×	
Morocco				×	1880-1885.5 MHz
Mozambique		×	No frequency allocated	×	
Myanmar		×	No frequency allocated	×	
Namibia		×	No frequency allocated	×	
Nepal		×	No frequency allocated	×	
Netherlands	✓				EU: 1880-1900 MHz, 250mW
Netherlands Antilles		×	No frequency allocated	×	
New Zealand	✓				EU: 1880-1900 MHz, 250mW

Country	Allowed	Not Allowed	Notes	SAP Exclusion	Notes
Nicaragua			22 dBm power limit	×	1920-1930 MHz, 22dBm (158 mW)
Niger		×	No frequency allocated	×	
Nigeria		×	No frequency allocated	×	
Norway					EU: 1880-1900 MHz, 250mW
Oman		×	No frequency allocated	×	
Pakistan		×	No frequency allocated	×	
Panama			in country partner approval	×	1910-1930 MHz, 250mW
Papua New Guinea		×	No frequency allocated	×	
Paraguay			in country partner approval	×	1910-1930 MHz, 250mW
Peru		×	No frequency allocated	×	
Philippines		×	Not allowed per government regulation	×	
Poland	✓				EU: 1880-1900 MHz, 250mW
Portugal	✓				EU: 1880-1900 MHz, 250mW
Puerto Rico		×	No frequency allocated	×	
Qatar				×	EU: 1880-1900 MHz
Romania	✓				EU: 1880-1900 MHz, 250mW
Russia	✓				EU: 1880-1900 MHz, 250mW
Rwanda		×	No frequency allocated	×	
Saint Lucia		×	Not allowed per government regulation	×	
Samoa		×	No frequency allocated	×	
San Marino		×	No frequency allocated	×	
Saudi Arabia	✓		Requires EU DoC at customs	×	EU: 1880-1900 MHz, 250mW
Senegal					
Serbia and Montenegro		×	No frequency allocated	×	
Seychelles		×	No frequency allocated	×	
Sierra Leone		×	No frequency allocated	×	
Singapore	✓				EU: 1880-1900 MHz, 250mW
Slovakia	✓				EU: 1880-1900 MHz, 250mW
Slovenia	✓				EU: 1880-1900 MHz, 250mW
Somalia		×	No frequency allocated	×	
South Africa	✓				EU: 1880-1900 MHz, 250mW
Spain	✓				EU: 1880-1900 MHz, 250mW
Sri Lanka		×	No frequency allocated	×	
St. Kitts and Nevis		×	Not allowed per government regulation	×	
St. Vincent and the Grenadines		×	Not allowed per government regulation	×	
Suriname		×	No frequency allocated	×	
Swaziland		×	No frequency allocated	×	
Sweden	✓				EU: 1880-1900 MHz, 250mW
Switzerland					EU: 1880-1900 MHz, 250mW
Syria		×	No frequency allocated	×	
Taiwan				×	1880-1895 MHz, 250mW
Tajikstan		×	No frequency allocated	×	
Tanzania		×	No frequency allocated	×	
Thailand		×		×	1900-1906 MHz (4 frequencies)
Togo		×	No frequency allocated	×	
Tonga		×	No frequency allocated	×	

Country	Allowed	Not Allowed	Notes	SAP Exclusion	Notes
Trinidad and Tobago		×	Not allowed per government regulation	×	
Tunisia				×	EU: 1880-1900 MHz, 250mW
Turkey	✓		accepts EU DoC		EU: 1880-1900 MHz, 250mW
Turkmenistan		×	No frequency allocated	×	
Turks and Caicos		×	No frequency allocated	×	
Uganda		×	No frequency allocated	×	
Ukraine				×	EU: 1880-1900 MHz, 250mW
United Arab Emirates				×	EU: 1880-1900 MHz, 250mW
United Kingdom	✓				EU: 1880-1900 MHz, 250mW
United States	✓				US: 1920-1930 MHz, 100mW
Uruguay				×	1910-1920 MHz, 100mW
Uzbekistan		×	No frequency allocated	×	
Venezuela		×	Not allowed per government regulation	×	
Vietnam					1880-1900 MHz, 250mW
Virgin Islands		×	No frequency allocated	×	
Western Sahara		×	No frequency allocated	×	
Yemen					EU: 1880-1900 MHz
Zambia		×	No frequency allocated	×	
Zimbabwe		×	No frequency allocated	×	

***Selling Avaya IP DECT solutions to the countries are subjected to the approval obtained from the local telecom regulatory.**

APPENDIX: Product Reference Information

37xx Handsets

Dimension (l × w × d)	3730 : 137 x 52 x 21.5 mm 3735 : 137 x 52 x 21mm 3720 : 133 × 53 × 24 mm 3725 : 134 × 53 × 26 mm 3740 / 3745 / 3749 : 143 x 59 x 29 mm
Weight including battery and basic clip	3730 : 114g 3735 : 135g 3720 : 115 g 3725 : 130 g 3740 / 3745 / 3749 : 180 g
Material	Case: PC-ABS 3730 keypad : Hard coated silicon 3735 keypad : Coated vulcanized silicone 3730 clip : POM 3735 clip : PA 3720 keypad : Silicone 3725, 374x keypad : PC 3720 clip : PC 3725, 374x clip: PPA
Color	3730 & 3735 : Black Rest of the handsets : Grey
Display (w × h), type	3730 : 28 x 35 mm, (1.8 in), TFT display Multiple colors with high resolution, 262 K individual colors. 128 x 160 pixel LCD with white LED backlight 3735 : 31 x 41 mm (2.0 in), TFT display Multiple colors with high resolution, 262 K individual colors. 240 × 320 pixel LCD with white LED backlight 3720, 3740 : 28 x 35 mm, FSTN B/W 3725, 3745, 3749 : 28 x 35 mm, CSTN color
Clip	Basic (hinge type) or swivel type 3730 & 3720 - Basic type 3735, 3725 & 374x - Basic (hinge type) or swivel type
Type	3730 & 3720: 600 mAh (Li-Ion)

	3735 & 3725: 870 mAh (Li-Polymer) 374x: 920 mAh (Li-Ion)
Speech time during optimal condition*	3730 : 15 hours 3735 w/o Bluetooth : 20 hours 3735 w/Bluetooth : 13 hours 3720 : 16 hours 3725 w/o Bluetooth : 20 hours 3725 w/Bluetooth : 13 hours 3740 : 18 hours 3745/3749 w/o Bluetooth : 10 hours 3745/3749 w Bluetooth : 12 hours * **The Integral PBX does not to support handsets to enter Low duty cycle when idle. Hence, the handsets will have shorter stand-by time.**
Stand-by time during optimal condition*	3730 : 20 hours 3735 : 235 hours 3720: 180 hours 3725: 120 hours 3740: 150 hours 3745: 90 hours 3749: 90 hours * **The Integral PBX does not to support handsets to enter Low duty cycle when idle. Hence, the handsets will have shorter stand-by time.**
Charge time	< 4 hours
Discharge/charge cycles	3730: >=65% capacity left after 500 full charge/discharge cycles. 3735 : >=80% capacity left after 400 full charge/discharge cycles. 3720: >=65% capacity left after 500 full charge/discharge cycles. 3725, 374x : >=80% capacity left after 400 full charge/discharge cycles.
Multi-purpose connector	373x: With USB for fast software download, configuration and battery charging. 372x & 374x: For battery charging, software download, and configuration.
Headset connector	373x: Standard 3.5 mm 373x: 372x: Standard 2.5 mm 374x: Usage of Multi-purpose connector
Display	3730: 128 x 160 pixel color LCD with white LED backlight 3735 : 240 × 320 pixel color LCD with white LED backlight 3725: 128 × 160 pixel 64k color LCD with white LED back-light 3740: 128 × 160 pixel Black & White LCD with white LED back-light 3745: 128 × 160 pixel 64k color LCD with white LED back-light 3749: 128 × 160 pixel 64k color LCD with white LED back-light
Telephony Indication	14 ring signals (IP DECT and DECT R4 Edition 3 with Integral Enterprise E07 or higher only, for Integral Enterprise below E07 and Integral 5 ISDN ring

	signals are controlled by switch), flashing LED and vibrator. Old Integral Enterprise PABX-SW (E07 and L0x) only supports Stim 1.0 protocol, and so ring signals are controlled by switch. For 373x handsets, need to use Integral software (E070v09.2.5 plus hotfix 6, L060v08_3_3.0 Patch 006) which supports Stim 2.0 protocol and so the local ringing tone from the handsets.
Keypad	- Soft keys (3) - Hook off - On hook and Power On/Off on the same key - 3730, 3720, 374x: Four way navigation key - 3735,3725: Five way navigation key - Numerical keys - 373x, 3725, 374x: Volume up/down - 3735, 3725, 3740, 3745: Multifunction button - 3735 (Alarm version) 3749: Alarm button - 373x, 3725, 374x: Mute / Ringer Off
Ring signal	Adjustable in 8 steps
Earpiece	Adjustable in 8 steps of 3dB each
Maximum sound pressure level	372x: 88 dBA @ 10 cm 3740/3745: 100 dBspl @ 10 cm 3749: 90 dBspl @ 10 cm
Loudspeaker	Duplex loud speaking function on 373x Limited full duplex loud speaking function on the 3720 Full duplex loud speaking function on 3725, 3740, and 3745 Half duplex loud speaking function on 3749
Languages	373x : 19 languages: Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Portuguese Brazilian, Russian, Slovakian, Spanish, Swedish and Turkish + 1 downloadable 3720: 4 (English, French, German, Spanish) and one out of 14 additional languages downloadable 3725, 374x: 19 (Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Portuguese, Russian, Slovakian, Spanish, Swedish, and Turkish) and downloadable language
Storage of contacts	- 250 contacts - 48 character name - 24 digit work number - 24 digit mobile phone number - 24 digit other numbers - 373x : Selectable ring tones per contact

	3725: Selectable ring tone
Automatic DECT protocol detection	Automatic detection and configuration for NAR DECT and EU DECT at first registration (IP DECT only)
Frequency range	• EU: 1880-1900 MHz • US/Canada: 1920-1930 MHz • CALA: 1910-1930 MHz • Brazil: 1910-1920 MHz
Maximum message length	3730 Mini Messaging (12 characters) Maximum message length: 12 characters to handset 3735 Messaging Maximum message length: Up to 140 characters from handset, depending on language and system settings. 160 characters for messages from handset to handset, up to 1000 (system dependant) for messages from a messaging server to the handset
Storage capacity	3730 : 0 3735 : 30 received/sent messages
Operating temperature	373x & 372x: 0°C to +40°C 3740: -10°C to +55°C 3749: -10°C to +40°C in hazardous areas 3749: -10°C to +55°C in areas where ATEX approval is not requested
Storage temperature[1]	-20°C to +60°C
Enclosure protection (IEC EN60529)	3730 & 3720: IP40 3735 & 3725: IP44 374x: IP65
Immunity to electromagnetic fields	3 V/m EN61000-4-3
Immunity to ESD	373x & 372x: 4 kV contact discharge and 8 kV air discharge (EN61000-4-2) 374x: 8 kV contact discharge and 16 kV air discharge (EN61000-4-2)
Free fall test, standard product	373x: IEC 60068-2-32, procedure 1, dropped 12 times from 1 metre. IEC 60068-2-32, procedure 2, dropped 1000 times from 0.5 metre. 3720: IEC 60068-2-32, procedure 1, dropped 12 times from 1 meter 3725: IEC 60068-2-32, procedure 1, dropped 12 times from 1.5 meter 374x: IEC 60068-2-32, procedure 1, dropped 12 times from 2 meters
Chemical Resistance Test	373x & 374x: 3% Hydrochloric Acid; M-alcohol (85% methylated ethanol); 60% Chlorhexidin 0.5mg/ml
Keypad Abrasion Test	3730 : IN7409 3749: 20 NB 0500-B

Radio Base Stations (IPBS2)

Voice over IP (IP DECT only)	Voice encoding	G.711 A-law / µ-law (64kbps) G.723.1 (5.3 kbps) G.729A and AB (16 kbps)
Radio	RF output power (e.r.p.), EU	Between 23 dBm and 28 dBm (with internal antenna), Between 20 dBm and 25 dBm (with external antenna)
	RF output power (e.r.p.), US	Between 17 dBm and 21.6 dBm (with internal antenna)
Frequencies	EU	1880-1900 MHz
	North America	1920-1930 MHz
	Latin America	1920-1930 MHz
	Brazil	1910-1920 MHz
Physical	Dimensions (l × w × d)	170 x 170 x 38 mm
	Weight	400 g
	Material	ABS molded plastic
	Color	White
Network (IP DECT only)	Ethernet	10/100baseT
Power	Power	Power over Ethernet (PoE) IEEE 802.3af Local power supply
	Operating voltage	21 to 56 VDC
	Power consumption	Typical 4 W Maximum 5 W
Environmental	Operating temperature	-10°C to +55°C
	Storage temperature	-25°C to +55°C
	Relative operating humidity	15 to 90%, non condensing
	Enclosure protection (IEC EN60529)	IP 20
	Relative storage humidity	5 to 95%, non condensing
	Immunity to electromagnetic fields	10V/m (EN61000-4-3)
	Immunity to ESD	6 kV contact discharge and 8 kV air discharge (EN61000-4-2)
Regulations Compliances	Europe	EU directives: 1999/5/EC (R&TTE) Radio: EN 301406, TBR22 Safety: EN 60950-1 EMC: EN 301489-6, EN 301498-1 EN 60945 Product marking: CE
	US and Canada (IP DECT	Safety: CSA/UL 60950-1

	only)	EMC/Radio: FCC part 15 (Class B), RSS-213 and ICES-003 Product marking: FCC ID: BXZIPBS2, IC:3724B-IPBS2
	Australia (IP DECT only)	Radio: ACA TS028 Safety: AS/NZS 60950-1 Product marking: A-Tick

IP DECT Gateway

Voice over IP (IP DECT only)	Voice encoding	G.711 A-law / µ-law (64kbps) G.723.1 (5.3 kbps) G.729A and AB (16 kbps)
Physical	Dimensions (l × w × d)	43.6 x 483 x 352 mm
	Weight	4.7 kg
	Material	Steel
	Color	Beige
Environmental	Operating temperature:	0°C to +40°C
	Storage temperature:	-40°C to +85°C
	Relative operating humidity:	15 – 90% non-condensing
	Relative storage humidity:	5 – 95% non-condensing
	Immunity to electromagnetic fields:	10 V/m (EN61000-4-3)
	Immunity to ESD:	6 kV contact discharge and 8kV air discharge (EN61000-4-2)
Power	Operating voltage:	110/230 VAC (100 – 240 VAC) 48 VDC (42 – 56 VDC)
	Power consumption:	Max 210 W (VAC) Max 250 W (VDC)
	Power dissipation	Approx. 15 W
Input - Output	Ethernet	2 x RJ45, 10/100baseT
	Sync Ring	2 x RJ45 Sync Ring I/O interface 2 x RJ45, Reference Sync I/O interface
	DECT base stations intf	16 x RJ45 ISDN DECT Radio Base Station interface
Regulations Compliances	Europe	EU directives: R&TTE 1999/5/EC Product marking: CE Safety: EN60950-1 EMC: EN 301498-1 and 301489-6
	USA and Canada	EMC: FCC Part 15 (Class B) and ICES-003 Safety: CSA/UL 60950-1
	Australia	Product marking: A-Tick Safety: IEC 60950-1

ISDN DECT Radio Base Stations

Radio	RF output power (e.r.p.), EU	Between 23 dBm and 28 dBm (with internal antenna)
	RF output power (e.r.p.), US	Between 17 dBm and 21,6 dBm (with internal antenna)
Frequencies	EU	1880-1900 MHz
	North America	1920-1930 MHz
	Latin America	1920-1930 MHz
	Brazil	1910-1920 MHz
Physical	Dimensions (l × w × d)	170 × 170 × 38 mm (including mounting bracket)
	Weight	Approx. 400g
	Material	ABS moulded plastic
	Color	White (NCS S 0502-B)
Network (IP DECT only)	Ethernet	
Power	Power	Locally, or centrally via 2 data pairs (UTP) and 1 optional pair
	Operating voltage	21 to 56 Vdc
	Power consumption	1.3 W to 2.0 W depending on number of slots currently in use.
Environmental	Operating temperature	-10°C to +55°C
	Storage temperature	-25°C to +70°C
	Relative operating humidity	15 to 90%, non-condensing
	Enclosure protection (IEC EN60529)	IP20
	Relative storage humidity	5 to 95%, non-condensing
	Immunity to electromagnetic fields	10V/m (EN61000-4-3)
	Immunity to ESD	6 kV contact discharge and 8 kV air discharge (EN61000-4-2)
Regulations Compliances	Europe	EU directives: 1999/5/EC (R&TTE), 2011/65/EU (RoHS) Radio: EN 301406 Safety: EN 60950-1 EMC: EN 301 489-6, EN 301 489-1, EN 60945
	US and Canada (IP DECT only)	Safety: CSA/UL 60950-1 EMC/Radio: FCC part 15 (Class B), RSS-213 and ICES-003 Product marking: FCC ID: BXZDB1R2A, IC:3724B-DB1R2A
	Australia (IP DECT only)	Radio: Radio communications (Digital

		Cordless Communications Devices — DECT Devices) Standard 2007 Safety: AS/NZS 60950-1

Avaya In-building Wireless Server (AIWS v2)

Physical	Dimensions (l × w × d)	44 x 220 x 199 mm
	Weight	1520 g
	Material	Sheet metal/plastic
	Color	Grey
Environmental	Operating temperature:	0°C to +40°C
	Storage temperature:	-20°C to +55°C
	Relative humidity:	30-85% (non condensing)
	Enclosure protection: (IEC EN60529)	IP30
	Immunity to electromagnetic fields:	10 V/m EN55024
	Immunity to ESD:	6 kV contact discharge and 8kV air discharge (EN61000-4-2)
Input / Output	Serial ports	None
	USB ports	2 x USB host port 2.0 full speed
	LAN	10baseT or 100baseT Ethernet (Modular jack, RJ45)
	Error relay output	Configurable – make/break operation. Mostly used for fault actions and error indications
	AUX outputs	2 x galvanic isolated open collector outputs
	AUX inputs	2 x digital inputs
Power Supply	100 – 240 V AC	Max. 275 mA
	12 – 24 V DC	Max. 1A
Regulations Compliances	Europe	EU directives: 2004/108/EC (EMC), 2006/95/EC (LVD), Eco Design 2005/32/EC Product marking: CE Safety: EN60950-1:2006 EMC: EN 55022:2007 (Class B), EN 55024:2003, EN 60945:2002, EN 50121-3-2:2006, EN 60533:1999, EN 60601-1-2:2004
	USA and Canada	Product marking: CSA

		EMC/Radio: FCC CFR 47 Part 15, Subpart B Safety: CSA/UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 55024

Basic Desktop Charger

Physical	Dimensions (l × w × d)	95 x 95 x 55 mm
	Weight	170 g (exclude power adapter)
	Material	PC/ABS
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection: (IEC EN60529)	IP30, IEC EN60529
	Immunity to electromagnetic fields:	3 V/m EN61000-4-3
	Immunity to ESD:	4 kV contact discharge and 8kV air discharge (EN61000-4-2)
Power Supply	Supply Voltage	100 – 240V, 50 – 60 Hz AC (adapter), 5 V DC (charger)
	Charge Current	0.65 A
Regulations Compliances	Europe	EU directives: 2004/108/EC (EMC) Product marking: CE Safety: EN60950-1 EMC: EN 55022 (Class B), EN61000-4-3
	USA and Canada	Product marking: CSA EMC/Radio: FCC CFR 47 Part 15 Safety: UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 61000-4-3

Advanced Desktop Charger

Physical	Dimensions (l × w × d)	130 x 98 x 55 mm
	Weight	160 g (exclude power adapter)
	Material	PC/ABS
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection: (IEC EN60529)	IP30, IEC EN60529
	Immunity to electromagnetic fields:	3 V/m EN61000-4-3
	Immunity to ESD:	4 kV contact discharge and 8kV air discharge (EN61000-4-2)
Interfaces	USB	USB 2.0 full speed
	Ethernet	100 Mbps (IEEE 802.3)
Power Supply	Supply Voltage	100 – 240V, 50 – 60 Hz AC (adapter), 5 V DC (charger)
	Charger current	0.65 A
Regulations Compliances	Europe	EU directives: 2004/108/EC (EMC) Product marking: CE Safety: EN60950-1 EMC: EN 55022 (Class B), EN61000-4-3
	USA and Canada	Product marking: CSA EMC/Radio: FCC CFR 47 Part 15 Safety: UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 61000-4-3

Desktop Programmer (DP1)

Physical	Dimensions (l × w × d)	95 × 95 × 55 mm
	Weight	170 g (excl. USB cable)
	Material	PC/ABS Rubber feet
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection: (IEC EN60529)	IP30, IEC EN60529
Interfaces	USB	
Regulations Compliances	Europe	EU directives: RoHS 2011/65/EU Product marking: CE
	USA and Canada	
	Australia	

The DP1 only consist of an adapter from USB to system contact and does not include any electronics so the immunity parts are not applicable.

Rack Mount Charger

Physical	Dimensions (l × w × d)	453 x 156 x 98 mm
	Weight	1.6 kg
	Material	PC/ABS
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection: (IEC EN60529)	IP30, IEC EN60529
	Immunity to electromagnetic fields:	10 V/m EN 301 489-6
	Immunity to ESD:	4 kV contact discharge and 8kV air discharge (EN61000-4-2)
Interfaces	USB	USB 2.0 full speed
	Ethernet	100 Mbps (IEEE 802.3)
Power Supply	Supply Voltage	100 – 240V, 50 – 60 Hz AC (adapter), 5 V DC (charger)
	Charger current	0.65 A
	Power cord	Power cord with IEC C13 connector (not supplied in box)
Regulations Compliances	Europe	EU directives: R&TTE – 1999/5/EC and

		ErP 2009/125/EC Product marking: CE Safety: EN60950-1 EMC: EN 55022 (Class B), EN 301 489-6
	USA and Canada	Product marking: CSA EMC/Radio: FCC CFR 47 Part 15 Safety: UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 301 489-6

Battery Charger Rack

Physical	Dimensions (l × w × d)	453 x 156 x 98 mm
	Weight	1.4 kg
	Material	PC/ABS
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection:	IP30, IEC EN60529
	Immunity to electromagnetic fields:	3 V/m EN 301 489-6
	Immunity to ESD:	4 kV contact discharge and 8kV air discharge (EN61000-4-2)
Power Supply	Supply Voltage	100 – 240V, 50 – 60 Hz AC (adapter), 5 V DC (charger)
	Charge current	0.65 A
	Power cord	Power cord with IEC C13 connector (not supplied in box)
Regulations Compliances	Europe	EU directives: R&TTE – 1999/5/EC Product marking: CE Safety: EN60950-1 EMC: EN 55022 (Class B), EN 301 489-6
	USA and Canada	Product marking: CSA EMC/Radio: FCC CFR 47 Part 15 Safety: UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 301 489-6

Multiple Battery Charger

Physical	Dimensions (l × w × d)	453 x 156 x 98 mm
	Weight	1.4 kg
	Material	PC/ABS
	Color	Grey
Environmental	Operating temperature:	+5°C to +40°C
	Storage temperature:	-20°C to +65°C
	Enclosure protection:	IP30, IEC EN60529
	Immunity to electromagnetic fields:	3 V/m EN 301 489-6
	Immunity to ESD:	4 kV contact discharge and 8kV air discharge (EN61000-4-2)
Power Supply	Supply Voltage	100 – 240V, 50 – 60 Hz AC (adapter), 5 V DC (charger)
	Charge current	0.65 A
	Power cord	Power cord with IEC C13 connector (not supplied in box)
Regulations Compliances	Europe	EU directives: R&TTE – 1999/5/EC Product marking: CE Safety: EN60950-1 EMC: EN 55022 (Class B), EN 301 489-6
	USA and Canada	Product marking: CSA EMC/Radio: FCC CFR 47 Part 15 Safety: UL 60950-1
	Australia	Product marking: A-Tick, C-Tick Safety: IEC 60950-1 EMC: EN 55022 and EN 301 489-6

Product Photos

3730 Handset 	3735 Handset 	3720 Handset 	3725 Handset 
3740/3745 Handset 	3749 Handset 	Basic Charger 	Desktop programmer 
Advanced Charger 	Rack Mount Charger 	Multi-Battery Charger 	3730 Battery lid 
3735 Battery 	3720 Battery 	3725 Battery 	3740/3745 Battery 
3749 Battery 	3749 Battery Opener 	3735 Standard Belt clip 	3720 & 3730 Basic Belt Clip 

3735 Swivel clip 	3725 Standard Belt Clip 	3725 Swivel Belt Clip 	374x Basic Belt Clip 
374x Swivel Belt Clip 	3730 Leather case 	3735 Leather case 	3720 Leather Case 
3725 Leather Case 	374x Leather Case 	Headset adapter w. QD for 3730& 3735 	374x Headset Mic on Boom 
374x Headset Adapter QD 	374x Headset Industrial 	374x Headset Adapter 	IP DECT RBS (IPBS v2/v3) 
ISDN Universal RBS 	Outdoor Housing 	Directional Dual Antenna 	Directional Single Antenna 

Omni Single Antenna 	IP DECT Gateway (IPBL) 	AIWS v2